IN THE CLAIMS:

Please cancel Claims 1-3, 6-13 and 18-48, which are withdrawn from consideration, without prejudice.

Please amend the claims as follows:

- (Amended) An isolated nucleic acid encoding mammalian heart alpha kinase, wherein 4. the nucleic acid is selected from the group consisting of:
 - the DNA sequence of SEQ ID NO: 34; a.
 - the DNA sequence of SEQ ID NO: 36;
 - DNA sequences that hybridize to the sequence of subparts (a) or (b) under <u>b</u> e. standard hybridization conditions; and
 - DNA sequences capable of encoding the amino acid sequence encoded by the <u>c</u> d⋅. DNA sequences of subparts (a) or 7 (b) or (c).
- (Amended) A recombinant DNA expression vector comprising the nucleic acid of any 14. of Claims 1, 4, 7, 10 or 12, wherein the DNA encoding the heart alpha kinase is operatively associated with an expression control sequence.
- (Amended) A unicellular host transformed with a recombinant DNA molecule 16. comprising a DNA sequence or degenerate variant thereof, which encodes an heart alpha kinase, or a fragment thereof, selected from the group consisting of:
 - the DNA sequence of (SEQ ID NO: 26);
 - the DNA sequence of (SEQ ID NO: 28);
 - the DNA sequence of (SEQ ID NO: 30);
 - the DNA sequence of (SEQ ID NO: 32);
 - the DNA sequence of (SEQ ID NO: 34); <u>a</u> e.
 - the DNA sequence of (SEQ ID NO: 36);
 - the DNA sequence of (SEQ ID NO: 38);
 - the DNA sequence of (SEQ ID NO: 40); h.

- <u>b</u> i. DNA sequences that hybridize to any of the foregoing DNA sequences under standard hybridization conditions; and
- <u>c</u> j. DNA sequences that <u>encode</u> code on expression for an amino acid sequence encoded by any of the foregoing DNA sequences;

wherein said DNA sequence is operatively linked to an expression control sequence.